

Symptomatic Urinary Tract Infection (SUTI)

NHSN CAUTI protocol <http://www.cdc.gov/nhsn/PDFs/pscManual/7pscCAUTIcurrent.pdf>

Patient name _____ MR # _____ Date of admission _____
Date of catheter insertion _____ Date of catheter removal _____ Date of review _____ Date of event _____

- ☐ All elements of the NHSN criteria are first present together ≥ 3 calendar days of admission (day of admission is day 1). Some elements of the criteria may be present during the first 2 calendar days of admission as long as they are also present on or after calendar day 3 of admission
- ☐ All elements used to meet infection criteria occur within a timeframe that does not exceed a gap of 1 calendar day between elements

Criterion 1a

- ☐ Patient has an indwelling urinary catheter in place for > 2 calendar days, with day of device placement being Day 1, and catheter is in place when all elements of this criterion are first present together

AND

- ☐ At least one of the following signs and symptoms:
 - ☐ Fever ($> 38^{\circ}\text{C}$)
 - ☐ Suprapubic tenderness with no other recognized cause
 - ☐ Costovertebral angle pain or tenderness with no other recognized cause

AND

- ☐ A positive urine culture of $\geq 10^5$ CFUs/ml with no more than two species of microorganisms

OR

- ☐ Patient had an indwelling urinary catheter in place for > 2 calendar days and had it removed the day of or the day before all elements of this criterion are first present together

AND

- ☐ At least one of the following signs or symptoms:
 - ☐ Fever ($> 38^{\circ}\text{C}$)
 - ☐ Urgency with no other recognized cause
 - ☐ Frequency with no other recognized cause
 - ☐ Dysuria with no other recognized cause
 - ☐ Suprapubic tenderness with no other recognized cause
 - ☐ Costovertebral angle pain or tenderness with no other recognized cause

AND

- ☐ A positive urine culture of $\geq 10^5$ CFUs/ml with no more than two species of microorganisms (see notes section below)

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- ☐ All elements used to meet infection criteria occur within a timeframe that does not exceed a gap of 1 calendar day between elements.

Criterion 1b (not catheter associated)

- ☐ Patient does NOT have an indwelling urinary catheter in place at the time of or the day before all the elements of this criterion are first present together

AND

- ☐ Has at least one of the following signs or symptoms:
 - ☐ Fever ($> 38^{\circ}\text{C}$) in a patient that is ≤ 65 years of age
 - ☐ Urgency with no other recognized cause
 - ☐ Frequency with no other recognized cause
 - ☐ Dysuria with no other recognized cause
 - ☐ Suprapubic tenderness with no other recognized cause
 - ☐ Costovertebral angle pain or tenderness with no other recognized cause

AND

- ☐ A positive urine culture of $\geq 10^5$ CFUs/ml with no more than two species of microorganisms (see notes section below)

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Criterion 2a

- ☐ Patient has an indwelling urinary catheter in place for > 2 calendar days, with day of device placement being Day 1, and catheter is in place when all elements of this criterion are first present together

AND

- ☐ At least one of the following signs or symptoms:
 - ☐ Fever ($> 38^{\circ}\text{C}$)
 - ☐ Suprapubic tenderness with no other recognized cause
 - ☐ Costovertebral angle pain or tenderness with no other recognized cause

AND

- ☐ At least one of the following findings:
 - ☐ Positive dipstick for leukocyte esterase and/or nitrite
 - ☐ Pyuria (urine specimen with ≥ 10 WBC/mm³ of unspun urine or > 5 WBC/high power field of spun urine)
 - ☐ Microorganisms seen on Gram stain of unspun urine

AND

- ☐ A positive urine culture of $\geq 10^3$ and $< 10^5$ CFU/ml with no more than two species of microorganisms (see notes section below)

OR

- ☐ Patient had an indwelling urinary catheter in place for > 2 calendar days and had it removed the day of or the day before all elements of this criterion are first present together

AND

- ☐ At least one of the following signs or symptoms:
 - ☐ Fever ($> 38^{\circ}\text{C}$)
 - ☐ Urgency with no other recognized cause
 - ☐ Frequency with no other recognized cause
 - ☐ Dysuria with no other recognized cause
 - ☐ Suprapubic tenderness with no other recognized cause
 - ☐ Costovertebral angle pain or tenderness with no other recognized cause

AND

- ☐ At least one of the following findings:
 - ☐ Positive dipstick for leukocyte esterase and/or nitrite
 - ☐ Pyuria (urine specimen with ≥ 10 WBC/mm³ of unspun urine or > 5 WBC/high power field of spun urine)
 - ☐ Microorganisms seen on Gram stain of unspun urine

AND

- ☐ A positive urine culture of $\geq 10^3$ and $< 10^5$ CFU/ml with no more than two species of microorganisms (see notes section below)



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Criterion 2b (not catheter associated)

- ☐ Patient did NOT have an indwelling urinary catheter in place at the time of, or the day before all the elements of this criterion are first present together

AND

- ☐ Has at least one of the following signs or symptoms
 - Fever ($> 38^{\circ}\text{C}$) in a patient that is ≤ 65 years of age
 - Urgency with no other recognized cause
 - Frequency with no other recognized cause
 - Dysuria with no other recognized cause
 - Suprapubic tenderness with no other recognized cause
 - Costovertebral angle pain or tenderness with no other recognized cause

AND

- ☐ At least one of the following findings:
 - Positive dipstick for leukocyte esterase and/or nitrite
 - Pyuria (urine specimen with ≥ 10 WBC/ mm^3 of unspun urine or > 5 WBC/high power field of spun urine)
 - Microorganisms seen on Gram stain of unspun urine

AND

- ☐ A positive urine culture of $\geq 10^3$ and $< 10^5$ CFUs/ml with no more than two species of microorganisms (see notes section below)

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Criterion 3

- ☐ Patient is ≤ 1 year of age with (has the indwelling urinary catheter in place for > 2 calendar days, with day of device placement being Day 1, and catheter is in place when all elements of this criterion are first present together), or without an indwelling urinary catheter

AND

- ☐ Has at least one of the following signs or symptoms:
 - ☐ Fever ($> 38^{\circ}$ C core)
 - ☐ Hypothermia ($< 36^{\circ}$ C core)
 - ☐ Apnea with no other recognized cause
 - ☐ Bradycardia with no other recognized cause
 - ☐ Dysuria with no other recognized cause
 - ☐ Lethargy with no other recognized cause
 - ☐ Vomiting with no other recognized cause

AND

- ☐ A positive urine culture of $\geq 10^5$ CFU/ml with no more than two species of microorganisms (see notes section below)

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- ☐ All elements used to meet infection criteria occur within a timeframe that does not exceed a gap of 1 calendar day between elements

Criterion 4

- ☐ Patient is ≤ 1 year of age with (has the indwelling urinary catheter in place for > 2 calendar days, with day of device placement being Day 1, and catheter is in place when all elements of this criterion are first present together), or without and indwelling urinary catheter

AND

- ☐ Has at least one of the following signs or symptoms:
 - ☐ Fever ($> 38^{\circ}\text{C}$ core)
 - ☐ Hypothermia ($< 36^{\circ}\text{C}$ core)
 - ☐ Apnea with no other recognized cause
 - ☐ Bradycardia with no other recognized cause
 - ☐ Dysuria with no other recognized cause
 - ☐ Lethargy with no other recognized cause
 - ☐ Vomiting with no other recognized cause

AND

- ☐ At least one of the following findings:
 - ☐ Positive dipstick for leukocyte esterase and/or nitrite
 - ☐ Pyuria (urine specimen with ≥ 10 WBC/mm³ of unspun urine or > 5 WBC/high power field of spun urine)
 - ☐ Microorganisms seen on Gram stain of unspun urine

AND

- ☐ A positive urine culture of $\geq 10^3$ and $< 10^5$ CFUs/ml with no more than two species of microorganisms (see notes section below)

Asymptomatic Bacteremic Urinary Tract Infection (ABUTI)
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Date of catheter insertion _____ Date of catheter removal _____ Date of review _____ Date of event _____

- ☐ All elements of the NHSN criteria are first present together ≥ 3 calendar days of admission (day of admission is day 1). Some elements of the criteria may be present during the first 2 calendar days of admission as long as they are also present on or after calendar day 3 of admission
- ☐ All elements used to meet infection criteria occur within a timeframe that does not exceed a gap of 1 calendar day between elements

☐ Patient of ANY AGE with (has the indwelling urinary catheter in place for > 2 calendar days, with day of device placement being Day 1, and catheter was in place when all elements of this criterion were first present together), or without an indwelling urinary catheter, has none of the following signs or symptoms

- ☐ fever ($> 38^{\circ}\text{C}$)
 - ☐ urgency
 - ☐ frequency
 - ☐ dysuria
 - ☐ suprapubic tenderness
 - ☐ costovertebral angle pain or tenderness
- } all must be checked

AND

- ☐ A positive urine culture of $\geq 10^5$ CFUs/ml with no more than two species of uropathogen⁺ microorganisms

AND

- ☐ A positive blood culture with at least one matching uropathogen microorganism to the urine culture or at least 2 matching blood cultures drawn on separate occasions if the matching pathogen is a common skin commensal (see notes section below)

OR

☐ Patient ≤ 1 YEAR OF AGE with (has the indwelling urinary catheter in place for > 2 calendar days, with day of device placement being Day 1, and catheter is in place when all elements of this criterion are first present together), or without an indwelling urinary catheter, has none of the following signs or symptoms

- ☐ fever ($> 38^{\circ}\text{C}$ core)
 - ☐ hypothermia ($< 36^{\circ}\text{C}$ core)
 - ☐ apnea
 - ☐ bradycardia
 - ☐ dysuria
 - ☐ lethargy
 - ☐ vomiting
- } all must be checked

AND

- ☐ A positive urine culture of $\geq 10^5$ CFUs/ml with no more than two species of uropathogen⁺ microorganisms

AND

- ☐ A positive blood culture with at least one matching uropathogen microorganism to the urine culture or at least 2 matching blood cultures drawn on separate occasions if the matching pathogen is a common skin commensal (see notes section below)



UTI Notes

+Uropathogen microorganisms are: Gram-negative bacilli, *Staphylococcus* spp. yeasts, beta-hemolytic *Streptococcus* spp., *Enterococcus* spp., *G. vaginalis*, *Aerococcus urinae*, and *Corynebacterium* (urease positive). Report *Corynebacterium* (urease positive) as either *Corynebacterium species unspecified* (COS) or as *C. urealyticum* (CORUR) if so speciated

UTI Comments

1. Laboratory cultures reported as “mixed flora” represent at least 2 species of organisms. Therefore an additional organism recovered from the same culture would represent > 2 species of microorganisms. Such a specimen cannot be used to meet the UTI criteria.
2. Urinary catheter tips should not be cultured and are not acceptable for the diagnosis of a urinary tract infection.
3. Urine cultures must be obtained using appropriate technique, such as clean catch collection or catheterization. Specimens from indwelling catheters should be aspirated through the disinfected sampling ports.
4. In infants, urine cultures should be obtained by bladder catheterization or suprapubic aspiration; positive urine cultures from bag specimens are unreliable and should be confirmed by specimens aseptically obtained by catheterization or suprapubic aspiration.
5. Urine specimens for culture should be processed as soon as possible, preferably within 1 to 2 hours. If urine specimens cannot be processed within 30 minutes of collection, they should be refrigerated, or inoculated into primary isolation medium before transport, or transported in an appropriate urine preservative. Refrigerated specimens should be cultured within 24 hours.
6. Urine specimen labels should indicate whether or not the patient is symptomatic.
7. Report secondary bloodstream infection = “Yes” for all cases of Asymptomatic Bacteremic Urinary Tract Infection (ABUTI).
8. Report only pathogens in both blood and urine specimens for ABUTI.
9. Report *Corynebacterium* (urease positive) as either *Corynebacterium species unspecified* (COS) or, as *C. urealyticum* (CORUR) if so speciated.

Other Urinary Tract Infection (OUTI)
(kidney, ureter, bladder, urethra, or tissue surrounding the retroperineal or perinephric space)
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Other infections of the urinary tract must meet at least one of the following criteria:

Criterion 1

- ☐ Patient has microorganisms isolated from culture of fluid (other than urine) or tissue from affected site

Criterion 2

- ☐ Patient has an abscess or other evidence of infection seen on direct examination, during an invasive procedure, or during a histopathologic examination

Criterion 3

- ☐ Patient has at least two of the following signs or symptoms:
 - ☐ Fever ($> 38^{\circ}\text{C}$)
 - ☐ Localized pain with no other recognized cause
 - ☐ Localized tenderness at the involved site with no other recognized cause

AND

- ☐ At least one of the following:
 - ☐ Purulent drainage from the affected site
 - ☐ Microorganism cultured from blood that are compatible with suspected site of infection
 - ☐ Imaging test evidence of infection [e.g., abnormal ultrasound, CT scan, MRI, or radiolabel scan (gallium, technetium)]

Criterion 4

- ☐ Patient ≤ 1 year of age has at least one of the following signs or symptoms
 - ☐ Fever ($> 38^{\circ}\text{C}$ core)
 - ☐ Hypothermia ($< 36^{\circ}\text{C}$ core)
 - ☐ Apnea with no other recognized cause
 - ☐ Bradycardia with no other recognized cause
 - ☐ Lethargy with no other recognized cause
 - ☐ Vomiting with no other recognized cause

AND

- ☐ At least one of the following:
 - ☐ Purulent drainage from the affected site
 - ☐ Microorganism cultured from blood that are compatible with suspected site of infection
 - ☐ Imaging test evidence of infection [e.g., abnormal ultrasound, CT scan, MRI, or radiolabel scan (gallium, technetium)]